

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striking through~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND the claims in accordance with the following:

1. (Currently Amended) A broadcast type communication data distribution ~~device~~ apparatus distributing data in a network, comprising:

a broadcast type communication data recognition unit comprising:

a receiving device receiving, as data received from a sender, segments of broadcast type communication data sent through the network as ~~as~~-uni-cast communication, wherein a source address field of the data stores a source address, an identifier and control information; and

an extracting device extracting, from ~~a~~the source address field of the data, ~~an~~the identifier and the control information including a command and/or information specifying a relay and ~~copy/transfer~~ copy and transfer of the data received from the sender, by analyzing ~~a~~the source address field of the data;

a storage unit;

a broadcast type communication control table storage unit including a storage control device storing an address of a receiver for which the data should be copied and transferred, and a data transfer available/unavailable flag addressed to the receiver, in relation to the identifier of the data in the storage unit; and

a copy/transfer unit comprising:

a relay device relaying the data to an addressed receiver;

a copy device copying the data based on the data transfer available/unavailable flag stored in the storage unit; and

a transfer device transferring the copied data to one or more receivers other than the addressed receiver or another distribution device through the network, ~~based on the address of the receiver for which the data should be copied and transferred and the data transfer available/unavailable flag stored in the broadcast type communication control table storage unit.~~

Claims 2-5 (Cancelled)

6. (Currently Amended) The broadcast type communication data distribution device apparatus according to claim 1, wherein said broadcast communication control table storage unit, further comprises an address addition device adding a destination address of the data as a receiver address in relation to the identifier of the data received from the sender when said broadcast type communication data recognition unit extracts a command from the control information indicating an addition of a receiver, ~~said broadcast communication control table storage unit adds a destination address of the data as a receiver address in relation to the identifier of the data received from the sender.~~

7. (Currently Amended) The broadcast type communication data distribution device apparatus according to claim 1, wherein when said broadcast communication control table storage unit, further comprises a first entry deletion device deleting an entry having a receiver address that matches a destination address of the data in relation to the identifier of the data received from the sender when said broadcast type communication data recognition unit extracts a command from the control information indicating a deletion of a receiver, ~~said broadcast communication control table storage unit deletes an entry having a receiver address that matches a destination address of the data, in relation to the identifier of the data received from the sender.~~

8. (Currently Amended) The broadcast type communication data distribution device apparatus according to claim 1, wherein said broadcast communication control table storage unit, further comprises a second entry deletion device deleting all entries having the identifier in its entry in relation to the identifier of the data received from the sender when said broadcast type communication data recognition unit extracts a command from the control information indicating a deletion of all receivers of broadcast type communication data corresponding to the identifier of the data, ~~said broadcast communication control table storage unit deletes all entries having the identifier in its entry, in relation to the identifier of the data received from the sender.~~

9. (Currently Amended) The broadcast type communication data distribution device apparatus according to claim 1, wherein said broadcast communication control table storage unit, further comprises a flag setting device setting the data transfer available/unavailable flag of a receiver address that matches the destination address of the data received from the sender to unavailable when said broadcast type communication data recognition unit extracts a command

from the control information indicating a stoppage of data distribution to a receiver, ~~said broadcast communication control table storage unit sets the data transfer available/unavailable flag of a receiver address that matches the destination address of the data received from the sender, to unavailable.~~

10. (Currently Amended) The broadcast type communication data distribution device apparatus according to claim 1, wherein said broadcast communication control table storage unit, further comprises a flag setting device setting the data transfer available/unavailable flag of a receiver address that matches the destination address of the data received from the sender to available when said broadcast type communication data recognition unit extracts a command from the control information indicating a re-start of data distribution to a receiver, ~~said broadcast communication control table storage unit sets the data transfer available/unavailable flag of a receiver address that matches the destination address of the data received from the sender, to available.~~

11. (Currently Amended) The broadcast type communication data distribution device apparatus according to claim 1, wherein said copy/transfer unit relays or copies/transfers all segments of data received from the sender, including the control information extracted by the broadcast type communication data recognition unit.

12. (Currently Amended) The broadcast type communication data distribution device apparatus according to claim 1, wherein said copy/transfer unit converts the control information extracted by said broadcast type communication data recognition unit into scrambled information received from the sender and relays or copies/transfers the converted data.

13. (Currently Amended) The broadcast type communication data distribution device apparatus according to claim 1, wherein when a target for which data is relayed or copied/transferred is a receiver of the data, said copy/transfer unit converts the control information extracted by said broadcast type communication data recognition unit into scrambled information received from the sender and relays or copies/transfers the converted data.

14. (Currently Amended) The broadcast type communication data distribution device apparatus according to claim 1, wherein the data received from the sender includes no data to be finally provided for a receiver.

15. (Currently Amended) The broadcast type communication data distribution device apparatus according to claim 1, wherein said broadcast type communication data recognition unit analyzes a source address, which is a private address of a MAC address in an Ethernet, and recognizes data in a layer 2 network.

16. (Currently Amended) The broadcast type communication data distribution device apparatus according to claim 1, wherein said broadcast type communication data recognition unit analyzes a source address, which is an Internet protocol address, and recognizes data in a layer 3 network.

17. (Currently Amended) The broadcast type communication data distribution device apparatus according to claim 1, wherein said broadcast type communication data recognition unit analyzes a source address, which is a port number of a user data protocol or a transmission control protocol, and recognizes data in a layer 4 network.

18. (Currently Amended) A broadcast type communication system conducting broadcast type communications, comprising:

a transmitter ~~device~~ apparatus transmitting broadcast type communication data to a receiver through a network in the form of uni-cast communication, ~~the broadcast type communication data including an identifier and control information including a command and/or information specifying a relay and copy/transfer of the broadcast type communication data; and~~
a broadcast type communication data distribution apparatus comprising:

a broadcast type communication data recognition unit including:

a receiving device receiving, as data received from a sender, segments of broadcast type communication data sent through the network as uni-cast communication, wherein a source address field of the data stores a source address, an identifier and control information; and

an extracting device extracting, from the source address field of the data, the identifier and the control information including a command and information specifying a relay and copy and transfer of the data received from the sender, by analyzing the source address field of the data; and

a storage unit;

a broadcast type communication control table storage unit including a storage control device storing an address of a receiver for which the data should be copied and transferred, and a data transfer available/unavailable flag addressed to the receiver, in relation to the identifier of the data in the storage unit; and

a copy/transfer unit comprising:

a relay device relaying the data to an addressed receiver;

a copy device copying the data based on the data transfer available/unavailable flag stored in the storage unit; and

a transfer device for transferring the copied data to one or more receivers other than the addressed receiver or another distribution device through the network
~~a broadcast type communication control table storage unit storing an address of a receiver for which the data should be copied and transferred, and a data transfer available/unavailable flag addressed to the receiver, in relation to the identifier of the broadcast type communication data; and a distribution device provided between a sender and a plurality of receivers, that relays data received from a sender through a network to an addressed receiver and also copies/transfers the data to one or more receivers other than the address receiver, based on the address of the receiver for which the data should be copied and transferred and the data transfer available/unavailable flag stored in the broadcast type communication control table storage unit, if the data is broadcast type communication data.~~

Claims 19-21 (Cancelled)